



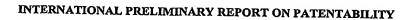
PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

				The second secon		
Applicant's or agent's file reference 020639PCT		FOR FURTHER AC	TION	See Form PCT/IPEA/416		
International application No. PCT/JP2003/010861		International filing date 27 August 2003		Priority date (day/month/year) 29 August 2002 (29.08.2002)		
Interna	ational Patent Classification (IPC) or n G11B 7/0045	1				
Applic	ant	PIONEER CO	RPORATION			
1.	This report is the international preling Authority under Article 35 and trans			s International Preliminary Examining 6.		
2.		This REPORT consists of a total of sheets, including this cover sheet.				
3. This report is also accompanied by ANNEXES, comprising: a. (sent to the applicant and to the International Bureau) a total				sheets, as follows:		
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4.	This report contains indications relating to the following items:					
	Box No. I Basis of the report					
	Box No. II Priority	Box No. II Priority				
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	Box No. IV Lack of unity of invention					
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI Certain documents cited					
ļ	Box No. VII Certain defects in the international application					
	Box No. VIII Certain obser	vations on the internatio	nal application			
Date	of submission of the demand		Date of completion	of this report		
	16 February 2004 (16.0	2.2004)	09	August 2004 (09.08.2004)		
Name	e and mailing address of the IPEA/JP		Authorized officer			
Facsi	mile No		Telephone No			

Translation



International application No.

PCT/JP2003/010861

BOX NO	·· 1	Basis of the report	
1. With other	regaro	d to the language, this report is based on the international application in the lang ndicated under this item.	uage in which it was filed, unless
	This which	s report is based on translations from the original language into the following ch is language of a translation furnished for the purpose of:	language,
		international search (under Rules 12.3 and 23.1(b))	
		publication of the international application (under Rule 12.4)	
		international preliminary examination (under Rules 55.2 and/or 55.3)	
		(
J	are not	d to the elements of the international application, this report is based on (in the receiving Office in response to an invitation under Article 14 are referred to an annexed to this report): International application as originally filed/furnished	replacement sheets which have been I to in this report as "originally filed"
		escription:	
	pages	S	, as originally filed/furnished
	pages	received by this Authority on	, as oxiginarly mountainshed
	pages	received by this Authority on	
	the cl	laims:	
	pages	3	as originally £1, 4/£
	pages	* as amended (toget	, as originally filed/furnished ther with any statement) under Article 19
•	pages	received by this Authority on	and the second of the second o
	pages	received by this Authority on	
	the dr	rawings:	
	pages	_	, as originally filed/furnished
	pages	* received by this Authority on	, as originally filed/furnished
	pages		
	a segu	nence listing and/or any related table(s) – see Supplemental Box Relating to Sequ	
	•	box Relating to Sequence and the sequence of t	ience Listing.
3	The ar	mendments have resulted in the cancellation of:	
٠. []			
		the description, pages	
	=	the claims, Nos.	
		the drawings, sheets/figs	
	\sqcup	the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	
	(Rule	report has been established as if (some of) the amendments annexed to this rep since they have been considered to go beyond the disclosure as filed, as in 70.2(c)). the description, pages	oort and listed below had not been idicated in the Supplemental Box
* If item	4 app	lies, some or all of those sheets may be marked "superseded."	,
		A/409 (Box No. D. (January 2004)	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Internation lication No.
PCT/JP 03/10861

٧.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-8	YES
		Claims		NO
	Inventive step (IS)	Claims	1-8	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-8	YES
		Claims		NO NO

2. Citations and explanations

Document 1: JP 11-102523 A (Nikon Corp.), 13 April 1999,

entire text, fig. 4 (Family: none)

Document 2: JP 3-022223 A (Fujitsu Ltd.), 30 January

1991, entire text, & EP 0388897 A2,

& US 5327411 A

Document 3: JP 5-012670 A (Ricoh Co., Ltd.), 22 January

1993, paragraphs [0031]-[0033], fig. 3

(Family: none)

Document 4: JP 5-143993 A (Olympus Optical Co., Ltd.), 11

June 1993, entire text (Family: none)

Claims 1 to 8

Documents 1 to 4 define the general state of the art in this technical field, and disclose features pertaining to the forming of optimal recording marks by controlling the recording power and the positioning of the front and rear edges of a recording pulse, but none of the documents cited in the international search report or newly cited in the international preliminary examination report discloses or suggests a feature wherein the position of a recording pulse is changed in response to a bias power level.